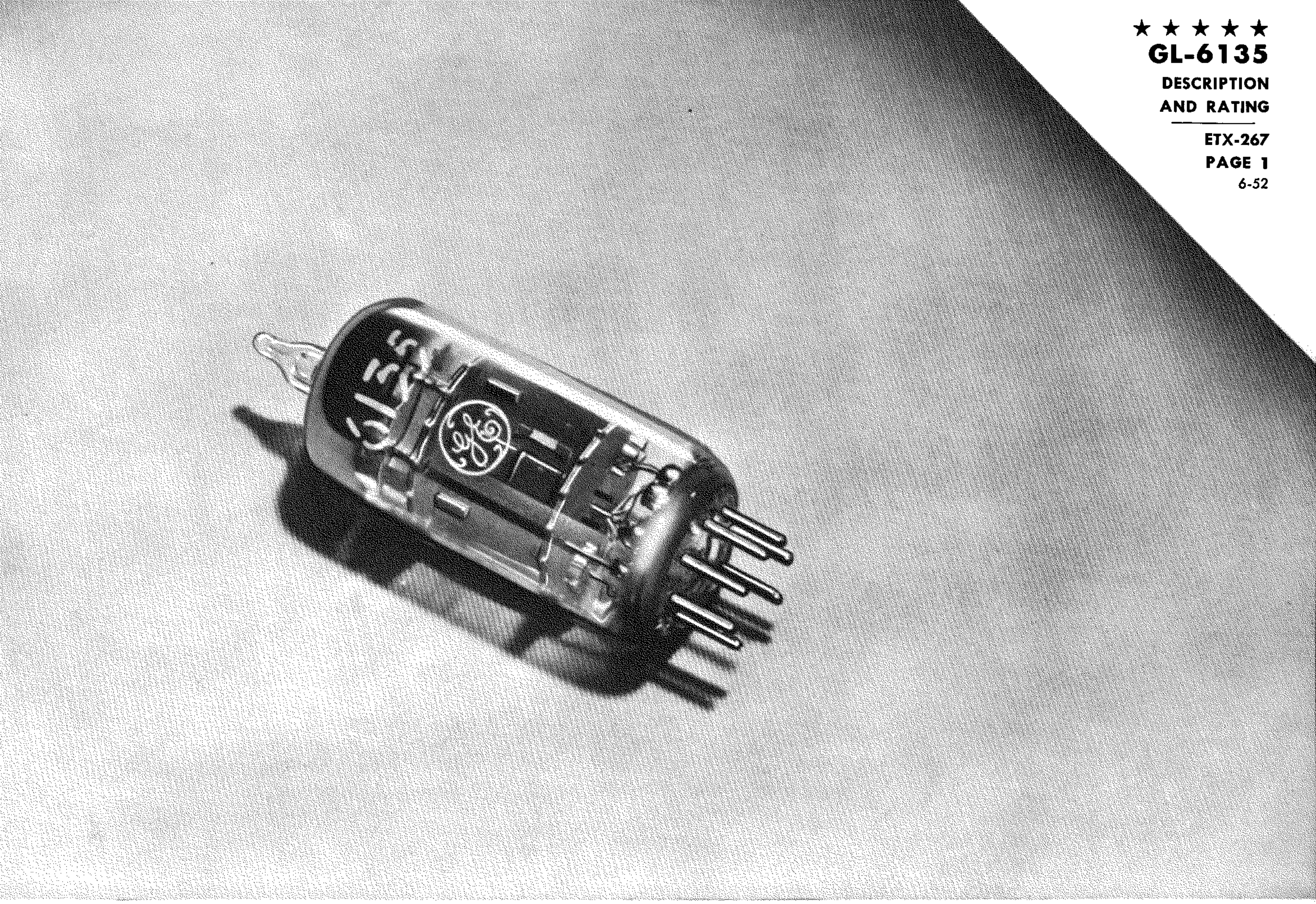


TRIODE

DESCRIPTION

The GL-6135 is a miniature medium-mu triode designed for use as a local oscillator in very-high-frequency receivers. It is also suitable for use as an audio amplifier and for use in general-purpose applications. The GL-6135 is specifically designed to assure dependable life and reliable service under the exacting conditions encountered in mobile and aircraft applications. Features include a high degree of mechanical strength, a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation, and a relatively high value of plate-to-grid insulation resistance throughout life.

TECHNICAL INFORMATION

GENERAL

Electrical Data

Cathode—Coated Unipotential

Heater Voltage (A-c or D-c)	6.3	Volts
Heater Current	0.175	Ampere

Direct Interelectrode Capacitances	With Shield*	Without Shield	
Grid to Plate	1.4	1.4	uuf
Input	1.7	1.5	uuf
Output	2.6	0.7	uuf

Mechanical Data

Mounting Position—Any
Envelope—T-5½ Glass
Base—Miniature Button 7-pin, E7-1

GE Electronic TUBE

GENERAL ELECTRIC

TECHNICAL INFORMATION (CONT'D)

MAXIMUM RATINGS

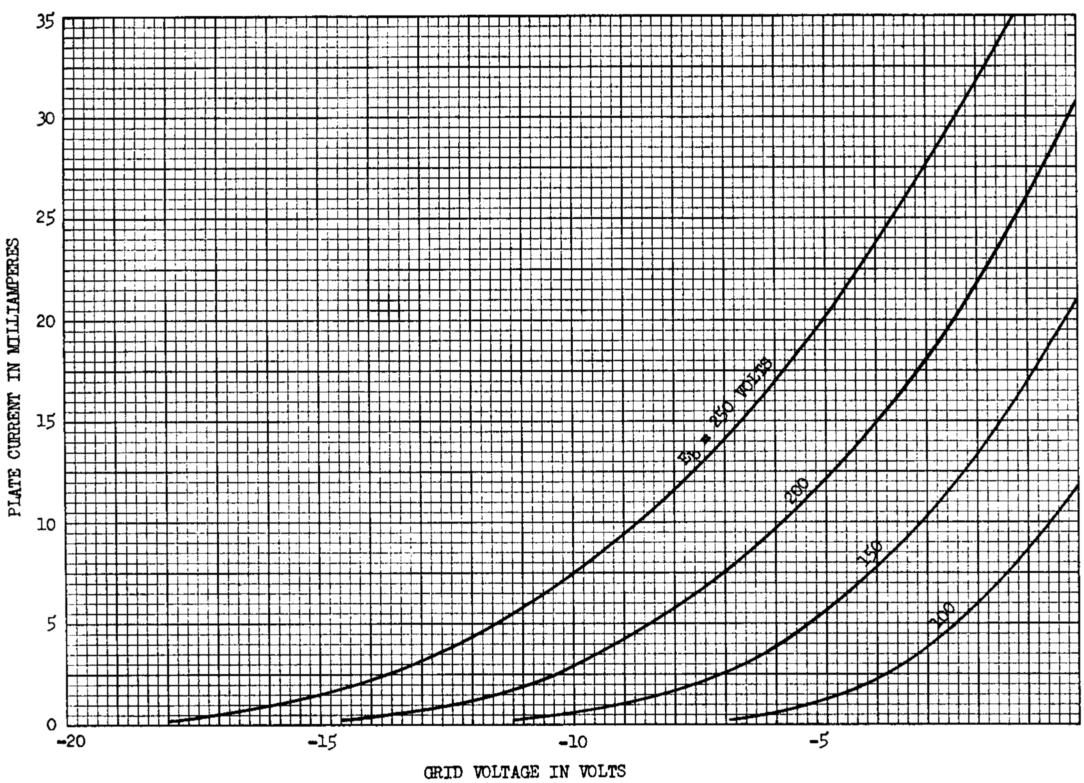
Electrical—Design Center Values		
Plate Voltage	300	Volts
Plate Dissipation	3.5	Watts
D-c Cathode Current	25	Milliamperes
Heater-Cathode Voltage	90	Volts
Grid-Circuit Resistance		
With Fixed Bias	0.25	Megohm
With Cathode Bias	1.0	Megohm
Mechanical		
Peak Impact Acceleration in Any Direction	600	G

CHARACTERISTICS AND TYPICAL OPERATION

Class A_1 Amplifier			
Plate Voltage	100	250	Volts
Grid Voltage	0	−8.5	Volts
Amplification Factor	19.5	17	
Plate Resistance, approximate	6250	7700	Ohms
Transconductance	3100	2200	Micromhos
Plate Current	11.8	10.5	Milliamperes
Grid Voltage, approximate for I_b = 10 Microamperes		−21	Volts

* With external shield No. 316 connected to cathode.

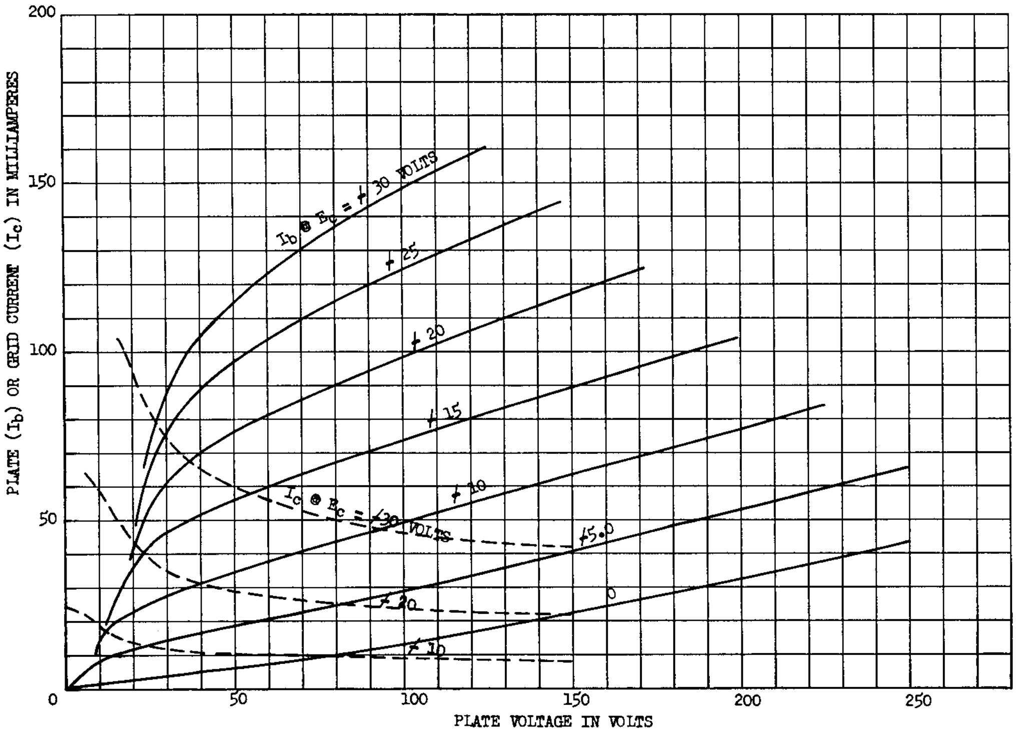
AVERAGE CHARACTERISTICS



K-69087-72A520

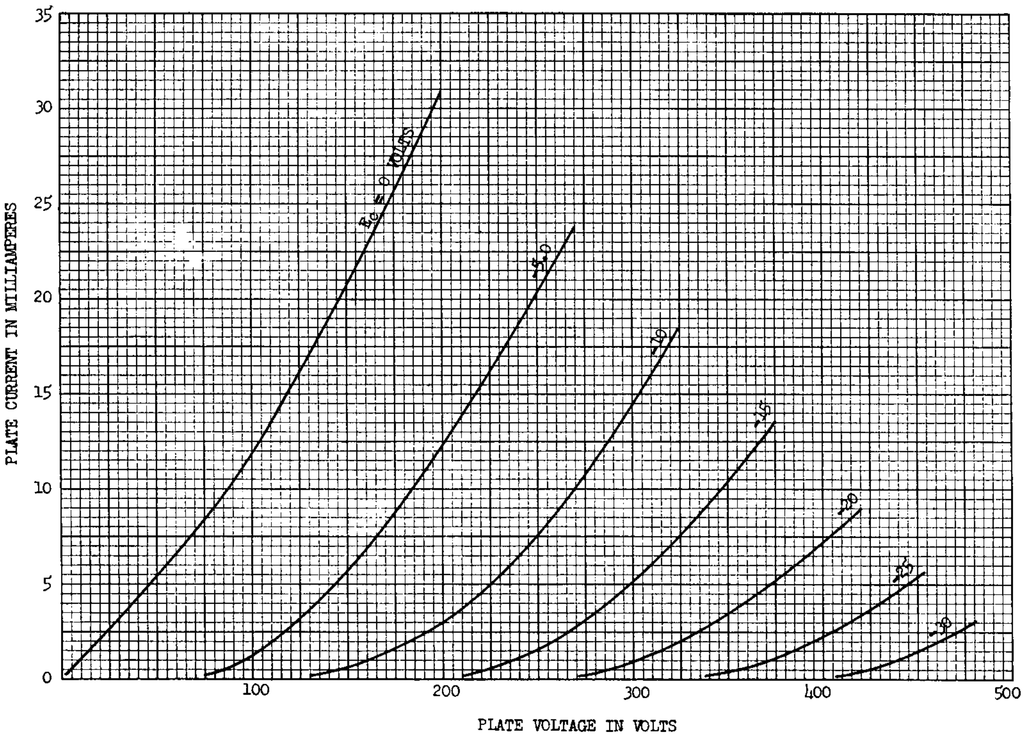
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AVERAGE PLATE CHARACTERISTICS



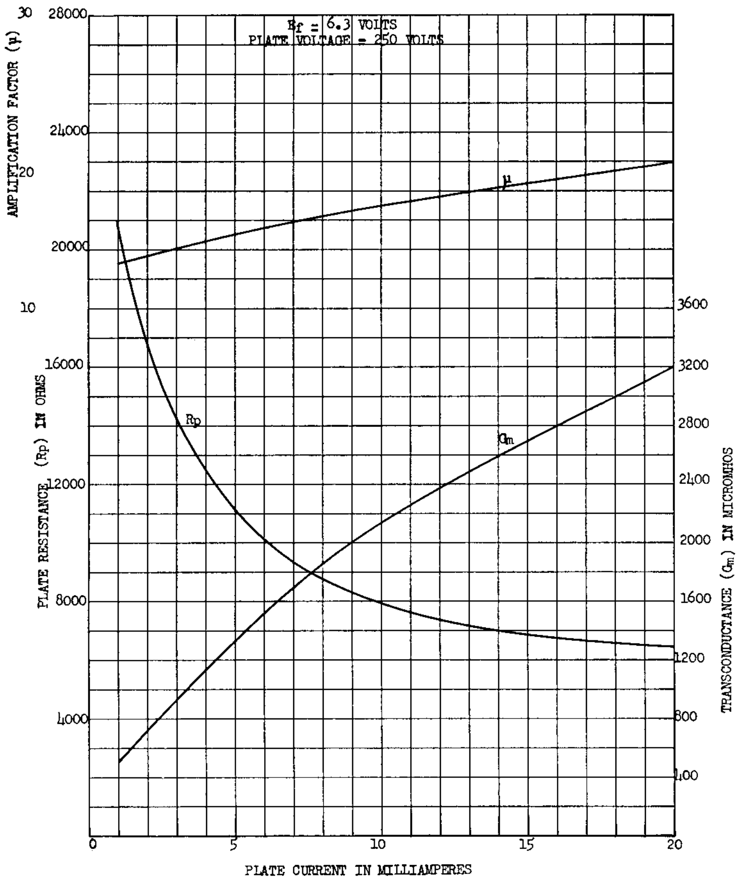
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AVERAGE PLATE CHARACTERISTICS



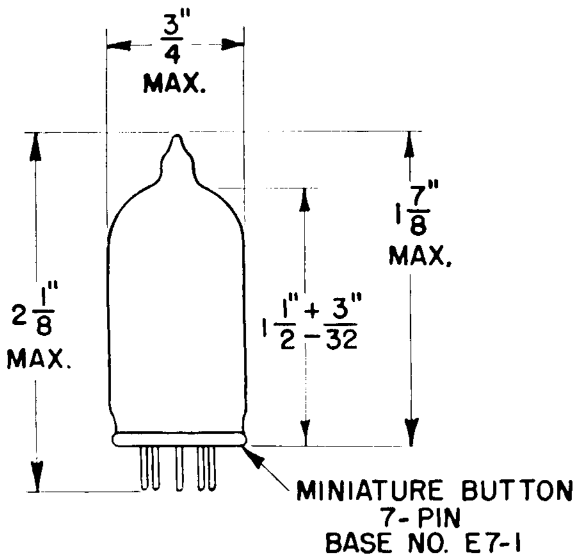
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AVERAGE CHARACTERISTICS
PLATE VOLTAGE = 250 VOLTS



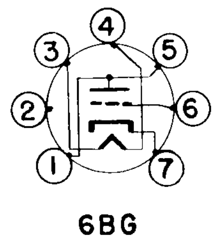
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OUTLINE



K-69087-72A518

BASING DIAGRAM



PIN 1: PLATE
PIN 2: INTERNAL CONNECTION
PIN 3: HEATER
PIN 4: HEATER
PIN 5: PLATE
PIN 6: GRID
PIN 7: CATHODE

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